Amendments to the Claims

In accordance with 37 C.F.R. § 1.121(c), this listing of claims will replace all prior versions and listings of claims in the application:

 (Previously Presented) A wood cutting band saw blade that when cutting wood produces saw dust and forms a kerf, comprising:

a cutting edge defined by a plurality of teeth spaced relative to each other, and a back edge including a substantially planar portion located on an opposite side of the band saw blade relative to the cutting edge, the plurality of teeth comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending substantially parallel to the substantially planar back edge portion of the band saw blade, and a shelf located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, the shelf located at least partially between the tip and the bend plane for reducing saw dust passing to the kerf and accumulating on the band saw blade, wherein at least a portion of the shelf is planar and extends substantially parallel to the substantially planar back edge portion or is planar and extends at an angle in a direction that is opposite the cutting direction and generally toward the back edge of the band saw blade.

(Previously Presented) The band saw blade of claim 1 wherein:

each of the set teeth comprises a relief surface and a cutting surface, the relief surface extending from one side of the tip in a direction opposite that of movement of the band saw blade and terminating at one end of an intermediate surface, and the cutting surface extending from another side of the tip; and

the shelf comprises a shelf surface extending from the cutting surface and terminating at another end of the intermediate surface.

 (Previously Presented) A wood cutting band saw blade that when cutting wood produces saw dust and forms a kerf, comprising:

a cutting edge defined by a plurality of teeth spaced relative to each other, and a back edge including a substantially planar portion located on an opposite side of the band saw blade relative to the cutting edge, the plurality of teeth comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending

substantially parallel to the substantially planar back edge portion of the band saw blade, and a shelf located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, the shelf located at least partially between the tip and the bend plane and at least a portion of the shelf being planar and extending substantially parallel to the substantially planar back edge portion or being planar and extending at an angle in a direction that is opposite the cutting direction and generally toward the back edge of the band saw blade for reducing saw dust passing to the kerf and accumulating on the band saw blade, wherein:

each of the set teeth has a dimension (SI) defined as the distance between the tip and the shelf of the respective set tooth;

each of the set teeth has a dimension (B) defined as the distance between the tip and the bend plane of the respective set tooth; and

a ratio of SI/B is within the range of approximately 1/4 to approximately 3/4.

- (Previously Presented) The band saw blade of claim 3 wherein the ratio of S1/B is approximately 45/100.
- (Original) The band saw blade of claim 2 wherein the shelf surface terminates in a shelf tip.
 - (Canceled)
 - (Previously Presented) The band saw blade of claim 3 wherein:

each of the teeth is set at an angle which is in the range of between approximately 1° and approximately 15° with respect to a transverse axis of the band saw blade; and

the dimension (S1) is within the range of approximately 6/100 inch to approximately 12/100 inch

- (Previously Presented) The band saw blade of claim 7 wherein the dimension
 is approximately 9/100 inch.
- (Previously Presented) The band saw blade of claim 2 wherein a length (L1) of the shelf surface defined between the cutting surface and the intermediate surface is within the range of approximately 6/100 inch to approximately 1/10 inch.

(Previously Presented) The band saw blade of claim 1 wherein:

the at least a portion of the shelf comprises a shelf surface that extends at an angle (A1), wherein the angle is within the range of approximately 4° to approximately 10° relative to the substantially planar back edge portion of the band saw blade.

- (Original) The band saw blade of claim 10 wherein the angle (A1) is approximately 7°.
- 12. (Previously Presented) A wood cutting band saw blade that when cutting wood produces saw dust and forms a kerf, comprising:

a cutting edge defined by a plurality of teeth spaced relative to each other, and a back edge including a substantially planar back edge portion located on an opposite side of the band saw blade relative to the cutting edge, the plurality of teeth comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending substantially parallel to the substantially planar back edge portion of the band saw blade, and a shelf located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, the shelf located at least partially between the tip and the bend plane for reducing saw dust passing to the kerf and accumulating on the band saw blade: wherein

each of the set teeth comprises a relief surface and a cutting surface, the relief surface extending from one side of the tip in a direction opposite that of the cutting direction of the band saw blade and terminating at one end of an intermediate surface, and the cutting surface extending from another side of the tip;

the shelf comprises a shelf surface extending from the cutting surface and terminating at another end of the intermediate surface; and

the shelf surface comprises a first portion that is planar and generally parallel to the substantially planar back edge portion and a second planar portion that is disposed at an acute shelf surface angle that extends in a direction opposite the cutting direction and generally toward the back edge of the band saw blade.

13. (Previously Presented) The band saw blade of claim 12 wherein the shelf surface angle is within the range of approximately 10° to approximately 20°.

(Previously Presented) The band saw blade of claim 12 wherein:

the second portion comprises about one third of the length of the shelf surface; and the shelf surface angle is approximately 15°.

15-20. (Canceled)

- 21. (Previously Presented) The band saw blade of claim 1 wherein at least one tooth comprises a relief portion extending from the tip and having a relief angle (RA) within the range of approximately 0° to approximately 2° with respect to a plane defined by a side of an unset tooth
- 22. (Currently Amended) The band saw blade of claim 21 wherein the relief portion also defines a tangential angle (TA) within the range of approximately 3° to approximately 6° with respect to [[the]] a side of the blade-body.
 - 23. (Previously Presented) The band saw blade of claim 3 wherein: the plurality of set teeth each comprises a second shelf;

each second shelf comprises a second shelf surface, and each second shelf defines a dimension (S2) extending between the tip of the respective set tooth and the second shelf.

- 24. (Previously Presented) The band saw blade of claim 23 wherein S2=(B+S1)/2 and S1 is within the range of between approximately 13/100 inch and approximately 16/100 inch.
- 25. (Previously Presented) The band saw blade of claim 9 wherein each of the plurality of set teeth comprises a second shelf; and a length (L2) of a surface of each second shelf is within the range of approximately 70% to approximately 90% of (L1).
- 26. (Previously Presented) The band saw blade of claim 25 wherein the length (L2) of the surface of each second shelf is approximately 80% of (L1).
- (Previously Presented) A wood cutting band saw blade that generates dust during cutting of wood, the band saw blade comprising:

a base having a back edge including a substantially planar portion;

a cutting edge defined by a plurality of teeth spaced relative to each other and being located on an opposite side of the band saw blade relative to the back edge, the plurality of teeth comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending substantially parallel to the substantially planar back edge portion of the band saw blade, a dust gap extending approximately between an outer lateral point of the tip and a lateral surface of the base, and means for reducing the quantity of dust passing through the dust gap and accumulating on the band saw blade, the reducing means being located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, and being located between the tip of each set tooth and the bend plane, wherein at least a portion of the reducing means is planar and extends substantially parallel to the substantially planar back edge portion or is planar and extends at an angle in a direction that is opposite the cutting direction and generally toward the back edge of the band saw blade.

- (Original) The band saw blade of claim 27 wherein the means for reducing the quantity of dust comprises at least one shelf.
- 29. (Previously Presented) The band saw blade of claim 28 wherein the means for reducing the quantity of dust further comprises a relief portion extending from the tip of the respective set tooth at an acute angle to a transverse axis of the saw blade.
 - 30. (Previously Presented) The band saw blade of claim 28 wherein:

each of the set teeth comprises a relief surface and a cutting surface, the relief surface extending from one side of the tip in a direction opposite the cutting direction of the band saw blade and terminating at one end of an intermediate surface, and the cutting surface extending from another side of the tip; and

the shelf comprises a shelf surface extending from the cutting surface and terminating at another end of the intermediate surface.

- (Previously Presented) A wood cutting band saw blade that generates dust during cutting of wood, the band saw blade comprising:
 - a base having a back edge including a substantially planar portion;
- a cutting edge defined by a plurality of teeth spaced relative to each other and being located on an opposite side of the band saw blade relative to the back edge, the plurality of teeth

comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending substantially parallel to the substantially planar back edge portion of the band saw blade, and first means for reducing saw dust passing to a kerf and accumulating on the band saw blade, the first means being located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, and being located at least partially between the tip and the bend plane and at least a portion of the first means being planar and extending substantially parallel to the substantially planar back edge portion or being planar and extending at an angle in a direction that is opposite the cutting direction and generally toward the back edge of the band saw blade, wherein:

each of the set teeth has a dimension (S1) defined as the distance between the tip and said first means of the respective set tooth:

each of the set teeth has a dimension (B) defined as the distance between the tip and the bend plane of the respective set tooth; and

a ratio of S1/B is within the range of approximately 1/4 to approximately 3/4.

32. (Currently Amended) The band saw blade of claim 31 wherein:

the plurality of set teeth each-comprising comprises second means for reducing saw dust passing to the kerf and accumulating on the band saw blade;

each second means defines a dimension (S2) extending between the tip of the respective set tooth and the second means.

- 33. (Previously Presented) The band saw blade of claim 32 wherein S2=(B+S1)/2 and S1 is within the range of between approximately 13/100 inch and approximately 16/100 inch.
- (Previously Presented) A wood cutting band saw blade that generates dust during cutting of wood, the band saw blade comprising:
 - a base having a back edge including a substantially planar portion;
- a cutting edge defined by a plurality of teeth spaced relative to each other and being located on an opposite side of the band saw blade relative to the back edge, the plurality of teeth comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending substantially parallel to the substantially planar edge

portion of the band saw blade, a dust gap dimension extending approximately between an outer lateral point of the tip and a lateral surface of the base, and means for effectively reducing the dust gap dimension, the reducing means being located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, and being located between the tip of each set tooth and the bend plane, wherein at least a portion of the reducing means is planar and extends parallel to the substantially planar back edge portion or is planar and extends at an angle in a direction that is opposite the cutting direction and generally toward the back edge of the band saw blade.

- 35. (Previously Presented) The band saw blade of claim 34 wherein the means for effectively reducing the dust gap dimension comprises at least one shelf.
- 36. (Previously Presented) The band saw blade of claim 35 wherein the means for effectively reducing the dust gap dimension further comprises a relief portion extending from the tip of the respective set tooth at an acute angle to a transverse axis of the saw blade.
 - 37. (Previously Presented) The band saw blade of claim 35 wherein:

each of the set teeth comprises a relief surface and a cutting surface, the relief surface extending from one side of the tip in a direction opposite the cutting direction of the band saw blade and terminating at one end of an intermediate surface, and the cutting surface extending from another side of the tip; and

the shelf comprises a shelf surface extending from the cutting surface and terminating at another end of the intermediate surface.

38. (Currently Amended) A wood cutting band saw blade that generates dust during cutting of wood, the band saw blade comprising:

a base having a back edge including a substantially planar portion;

a cutting edge defined by a plurality of teeth spaced relative to each other and being located on an opposite side of the band saw blade relative to the back edge, the plurality of teeth comprising a plurality of set teeth, each set tooth defining a tip, a bend plane from which the set tooth is set, the bend plane extending substantially parallel to the substantially planar back edge portion of the band saw blade, and a shelf being located on a front portion of each set tooth with respect to a cutting direction of the band saw blade and exposed during cutting, and being

located at least partially between the tip and the bend plane and at least a portion of the shelf being planar and extending substantially parallel to the substantially planar back edge portion or being planar and extending at an angle in a direction that is opposite the cutting direction and generally toward the back edge of the band saw blade for reducing saw dust passing to-the a kerf and accumulating on the band saw blade, wherein:

each of the set teeth has a dimension (S1) defined as the distance between the tip and the shelf of the respective set tooth:

each of the set teeth has a dimension (B) defined as the distance between the tip and the bend plane of the respective set tooth; and

a ratio of S1/B is within the range of approximately 1/4 to approximately 3/4.

 (Previously Presented) The band saw blade of claim 38 wherein: the plurality of set teeth each comprises a second shelf;

each second shelf comprises a second shelf surface, and each second shelf defines a dimension (S2) extending between the tip of the respective set tooth and the second shelf.

- 40. (Previously Presented). The band saw blade of claim 39 wherein S2=(B+S1)/2 and S1 is within the range of between approximately 13/100 inch and approximately 16/100 inch.
- 41. (Previously Presented) The band saw blade of claim 1 wherein the plurality of teeth further comprise a plurality of unset teeth and wherein:

the plurality of teeth have a repeating pattern of one unset tooth and four set teeth; and the set teeth are alternately set in directions on opposing sides of the cutting edge.

- 42. (Previously Presented) The band saw blade of claim 2 wherein the intermediate surface comprises a curvilinear base surface that defines a gullet.
- 43. (Currently Amended) The band saw blade of claim 42 further comprising at least one bump portion extending outwardly from a surface of-each the gullet.
- 44. (Currently Amended) The band saw blade of claim 43 wherein the at least one bump portion comprises a bump portion extending outwardly from a first side surface and a second side surface of each the gullet.

45. (Previously Presented) The band saw blade of claim 43 wherein the at least one bump portion has a height (H) within the range of approximately .04 to approximately .06 inch from the curvilinear base surface.

- 46. (Previously Presented) The band saw blade of claim 45 wherein the bump portion has a lateral width (W) as measured from a side surface of a base of the band saw blade that is within the range of approximately .005 inch to approximately .015 inch.
- 47. (Currently Amended) The band saw blade of claim 42 wherein the gullet has a depth (D) as measured from the tip of a tooth and each of the set teeth has a dimension (S1) defined as the distance between the tip and the shelf of the respective set tooth and the dimension (S1) is approximately one third of (D).
- 48. (Currently Amended) The band saw blade of claim 27 wherein the means for reducing the quantity of dust passing through the dust gap and accumulating on the band saw blade includes a relief portion defining a substantially flat surface formed on an upper corner of the respective set tooth on an outer side of the set tooth, wherein the relief portion extends between the shelf and from the tip of the respective set tooth and is oriented at an acute angle with respect to a plane defined by the remaining portion of the respective side of the set tooth for reducing an effective dust gap of the set tooth.
- 49. (Previously Presented) The band saw blade as defined in claim 48 wherein the relief portion is oriented at a relief angle (RA) within the range of approximately 0° to approximately 2° with respect to a plane defined by a side of an unset tooth.
- (Previously Presented) The band saw blade of claim 31, wherein the first means for reducing saw dust passing to the kerf and accumulating on the band saw blade comprises at least one shelf.
- 51. (Previously Presented) The band saw blade of claim 1, wherein the at least a portion of the shelf extends substantially parallel to the substantially planar back edge portion.
- 52. (Previously Presented) The band saw blade of claim 3, wherein the at least a portion of the shelf extends substantially parallel to the substantially planar back edge portion.

53. (Previously Presented) The band saw blade of claim 27, wherein the at least a portion of the reducing means extends substantially parallel to the substantially planar back edge portion.

- 54. (Previously Presented) The band saw blade of claim 31, wherein the at least a portion of the first means extends substantially parallel to the substantially planar back edge portion.
- 55. (Previously Presented) The band saw blade of claim 34, wherein the at least a portion of the reducing means extends substantially parallel to the substantially planar back edge portion.
- (Previously Presented) The band saw blade of claim 38, wherein the at least a
 portion of the shelf extends substantially parallel to the substantially planar back edge portion.
 - (Canceled)